

Michael T Lewis

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

9,401
citations

61945

43
h-index

40954

93
g-index

107
all docs

107
docs citations

107
times ranked

14774
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic Resistance of Tumorigenic Breast Cancer Cells to Chemotherapy. <i>Journal of the National Cancer Institute</i> , 2008, 100, 672-679.	3.0	1,632
2	Residual breast cancers after conventional therapy display mesenchymal as well as tumor-initiating features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13820-13825.	3.3	1,257
3	Mutual regulation of tumour vessel normalization and immunostimulatory reprogramming. <i>Nature</i> , 2017, 544, 250-254.	13.7	555
4	A Renewable Tissue Resource of Phenotypically Stable, Biologically and Ethnically Diverse, Patient-Derived Human Breast Cancer Xenograft Models. <i>Cancer Research</i> , 2013, 73, 4885-4897.	0.4	394
5	Fatty Acid Oxidation-Driven Src Links Mitochondrial Energy Reprogramming and Oncogenic Properties in Triple-Negative Breast Cancer. <i>Cell Reports</i> , 2016, 14, 2154-2165.	2.9	232
6	Patient-derived xenograft models of breast cancer and their predictive power. <i>Breast Cancer Research</i> , 2015, 17, 17.	2.2	225
7	Preclinical and Clinical Studies of Gamma Secretase Inhibitors with Docetaxel on Human Breast Tumors. <i>Clinical Cancer Research</i> , 2013, 19, 1512-1524.	3.2	224
8	Constitutively Active Type I Insulin-Like Growth Factor Receptor Causes Transformation and Xenograft Growth of Immortalized Mammary Epithelial Cells and Is Accompanied by an Epithelial-to-Mesenchymal Transition Mediated by NF- κ B and Snail. <i>Molecular and Cellular Biology</i> , 2007, 27, 3165-3175.	1.1	219
9	Patterns of Resistance and Incomplete Response to Docetaxel by Gene Expression Profiling in Breast Cancer Patients. <i>Journal of Clinical Oncology</i> , 2005, 23, 1169-1177.	0.8	189
10	Patient-derived xenograft (PDX) models in basic and translational breast cancer research. <i>Cancer and Metastasis Reviews</i> , 2016, 35, 547-573.	2.7	189
11	Oncogenic mTOR signalling recruits myeloid-derived suppressor cells to promote tumour initiation. <i>Nature Cell Biology</i> , 2016, 18, 632-644.	4.6	174
12	Androgen receptor overexpression induces tamoxifen resistance in human breast cancer cells. <i>Breast Cancer Research and Treatment</i> , 2010, 121, 1-11.	1.1	169
13	Pharmacological targeting of MYC-regulated IRE1/XBP1 pathway suppresses MYC-driven breast cancer. <i>Journal of Clinical Investigation</i> , 2018, 128, 1283-1299.	3.9	163
14	Constitutive activation of smoothened (SMO) in mammary glands of transgenic mice leads to increased proliferation, altered differentiation and ductal dysplasia. <i>Development (Cambridge)</i> , 2007, 134, 1231-1242.	1.2	161
15	Mesenchymal Stem Cells Promote Mammosphere Formation and Decrease E-Cadherin in Normal and Malignant Breast Cells. <i>PLoS ONE</i> , 2010, 5, e12180.	1.1	148
16	The Terminal End Bud: the Little Engine that Could. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2017, 22, 93-108.	1.0	137
17	Differentiation-state plasticity is a targetable resistance mechanism in basal-like breast cancer. <i>Nature Communications</i> , 2018, 9, 3815.	5.8	137
18	A human breast cancer-derived xenograft and organoid platform for drug discovery and precision oncology. <i>Nature Cancer</i> , 2022, 3, 232-250.	5.7	133

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19	EMT cells increase breast cancer metastasis via paracrine GLI activation in neighbouring tumour cells. <i>Nature Communications</i> , 2017, 8, 15773.	5.8	126
20	TEM8/ANTXR1-Specific CAR T Cells as a Targeted Therapy for Triple-Negative Breast Cancer. <i>Cancer Research</i> , 2018, 78, 489-500.	0.4	122
21	Conservation of copy number profiles during engraftment and passaging of patient-derived cancer xenografts. <i>Nature Genetics</i> , 2021, 53, 86-99.	9.4	118
22	Pygo2 expands mammary progenitor cells by facilitating histone H3 K4 methylation. <i>Journal of Cell Biology</i> , 2009, 185, 811-826.	2.3	113
23	High IGF-IR Activity in Triple-Negative Breast Cancer Cell Lines and Tumorgrafts Correlates with Sensitivity to Anti-IGF-IR Therapy. <i>Clinical Cancer Research</i> , 2011, 17, 2314-2327.	3.2	112
24	Introduction of oncogenes into mammary glands in vivo with an avian retroviral vector initiates and promotes carcinogenesis in mouse models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17396-17401.	3.3	101
25	Cyclopamine inhibition of human breast cancer cell growth independent of Smoothed (Smo). <i>Breast Cancer Research and Treatment</i> , 2009, 115, 505-521.	1.1	95
26	Spliceosome-targeted therapies trigger an antiviral immune response in triple-negative breast cancer. <i>Cell</i> , 2021, 184, 384-403.e21.	13.5	94
27	PDX-MI: Minimal Information for Patient-Derived Tumor Xenograft Models. <i>Cancer Research</i> , 2017, 77, e62-e66.	0.4	92
28	The Gli2 Transcription Factor Is Required for Normal Mouse Mammary Gland Development. <i>Developmental Biology</i> , 2001, 238, 133-144.	0.9	91
29	Cisplatin@US-tube carbon nanocapsules for enhanced chemotherapeutic delivery. <i>Biomaterials</i> , 2012, 33, 1455-1461.	5.7	91
30	STAT3 Signaling Is Activated Preferentially in Tumor-Initiating Cells in Claudin-Low Models of Human Breast Cancer. <i>Stem Cells</i> , 2014, 32, 2571-2582.	1.4	91
31	PHGDH heterogeneity potentiates cancer cell dissemination and metastasis. <i>Nature</i> , 2022, 605, 747-753.	13.7	77
32	gpGrouper: A Peptide Grouping Algorithm for Gene-Centric Inference and Quantitation of Bottom-Up Proteomics Data. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2270-2283.	2.5	71
33	Homeobox genes in mammary gland development and neoplasia. <i>Breast Cancer Research</i> , 2000, 2, 158-69.	2.2	70
34	Paracrine Wnt signaling both promotes and inhibits human breast tumor growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6991-6996.	3.3	69
35	Next Stop, the Twilight Zone: Hedgehog Network Regulation of Mammary Gland Development. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2004, 9, 165-181.	1.0	63
36	Evidence That an Early Pregnancy Causes a Persistent Decrease in the Number of Functional Mammary Epithelial Stem Cells—Implications for Pregnancy-Induced Protection Against Breast Cancer. <i>Stem Cells</i> , 2008, 26, 3205-3209.	1.4	60

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37	Comprehensive characterization of 536 patient-derived xenograft models prioritizes candidates for targeted treatment. <i>Nature Communications</i> , 2021, 12, 5086.	5.8	58
38	Decreased TGF β 2 signaling and increased COX2 expression in high risk women with increased mammographic breast density. <i>Breast Cancer Research and Treatment</i> , 2010, 119, 305-314.	1.1	56
39	Activation of Erk by sonic hedgehog independent of canonical hedgehog signalling. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1462-1471.	1.2	52
40	Estrogen Promotes ER-Negative Tumor Growth and Angiogenesis through Mobilization of Bone Marrow-Derived Monocytes. <i>Cancer Research</i> , 2012, 72, 2705-2713.	0.4	51
41	C/EBP β links IL-6 and HIF-1 signaling to promote breast cancer stem cell-associated phenotypes. <i>Oncogene</i> , 2019, 38, 3765-3780.	2.6	50
42	VEGF-C mediates tumor growth and metastasis through promoting EMT-epithelial breast cancer cell crosstalk. <i>Oncogene</i> , 2021, 40, 964-979.	2.6	50
43	Circulating and disseminated tumor cells from breast cancer patient-derived xenograft-bearing mice as a novel model to study metastasis. <i>Breast Cancer Research</i> , 2015, 17, 3.	2.2	48
44	Constitutive Activation of Smoothed Leads to Female Infertility and Altered Uterine Differentiation in the Mouse1. <i>Biology of Reproduction</i> , 2010, 82, 991-999.	1.2	47
45	Dicer-Mediated Upregulation of BCRP Confers Tamoxifen Resistance in Human Breast Cancer Cells. <i>Clinical Cancer Research</i> , 2011, 17, 6510-6521.	3.2	47
46	Combinatorial inhibition of PTPN12-regulated receptors leads to a broadly effective therapeutic strategy in triple-negative breast cancer. <i>Nature Medicine</i> , 2018, 24, 505-511.	15.2	47
47	A Geometrically-Constrained Mathematical Model of Mammary Gland Ductal Elongation Reveals Novel Cellular Dynamics within the Terminal End Bud. <i>PLoS Computational Biology</i> , 2016, 12, e1004839.	1.5	47
48	Hedgehog signaling in mouse mammary gland development and neoplasia. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2001, 6, 53-66.	1.0	44
49	Identifying and targeting tumor-initiating cells in the treatment of breast cancer. <i>Endocrine-Related Cancer</i> , 2015, 22, R135-R155.	1.6	42
50	Carbon nanotube capsules enhance the in vivo efficacy of cisplatin. <i>Acta Biomaterialia</i> , 2017, 58, 466-478.	4.1	41
51	Wild-Type N-Ras, Overexpressed in Basal-like Breast Cancer, Promotes Tumor Formation by Inducing IL-8 Secretion via JAK2 Activation. <i>Cell Reports</i> , 2015, 12, 511-524.	2.9	39
52	Altered differentiation and paracrine stimulation of mammary epithelial cell proliferation by conditionally activated Smoothed. <i>Developmental Biology</i> , 2011, 352, 116-127.	0.9	36
53	Cancer stem cell, niche and EGFR decide tumor development and treatment response: A bio-computational simulation study. <i>Journal of Theoretical Biology</i> , 2011, 269, 138-149.	0.8	36
54	A CTC-Cluster-Specific Signature Derived from OMICS Analysis of Patient-Derived Xenograft Tumors Predicts Outcomes in Basal-Like Breast Cancer. <i>Journal of Clinical Medicine</i> , 2019, 8, 1772.	1.0	36

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55	Establishment of Patient-Derived Xenograft (PDX) Models of Human Breast Cancer. <i>Current Protocols in Mouse Biology</i> , 2013, 3, 21-29.	1.2	34
56	New paradigms for the Hedgehog signaling network in mammary gland development and breast Cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2017, 1868, 315-332.	3.3	34
57	Mammary Precancerous Stem and Non-Stem Cells Evolve into Cancers of Distinct Subtypes. <i>Cancer Research</i> , 2019, 79, 61-71.	0.4	33
58	<i>Ptch1</i> is required locally for mammary gland morphogenesis and systemically for ductal elongation. <i>Development (Cambridge)</i> , 2009, 136, 1423-1432.	1.2	32
59	Identification and Characterization of Separase Inhibitors (Sepins) for Cancer Therapy. <i>Journal of Biomolecular Screening</i> , 2014, 19, 878-889.	2.6	31
60	Integrative physical oncology. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 1-14.	6.6	29
61	Regulated expression patterns of <i>IRX-2</i> , an Iroquois-class homeobox gene, in the human breast. <i>Cell and Tissue Research</i> , 1999, 296, 549-554.	1.5	25
62	Hedgehog Signaling in the Normal and Neoplastic Mammary Gland. <i>Current Drug Targets</i> , 2010, 11, 1103-1111.	1.0	23
63	MEK activation modulates glycolysis and supports suppressive myeloid cells in TNBC. <i>JCI Insight</i> , 2020, 5, .	2.3	22
64	The Altered Transcriptome and DNA Methylation Profiles of Docetaxel Resistance in Breast Cancer PDX Models. <i>Molecular Cancer Research</i> , 2019, 17, 2063-2076.	1.5	20
65	Circulating tumor cell investigation in breast cancer patient-derived xenograft models by automated immunofluorescence staining, image acquisition, and single cell retrieval and analysis. <i>BMC Cancer</i> , 2019, 19, 220.	1.1	19
66	P190A RhoGAP is required for mammary gland development. <i>Developmental Biology</i> , 2011, 360, 1-10.	0.9	18
67	Methods for Preparing Fluorescent and Neutral Red-Stained Whole Mounts of Mouse Mammary Glands. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2009, 14, 411-415.	1.0	17
68	An essential role for $\text{G}\alpha_2$ in Smoothed-stimulated epithelial cell proliferation in the mammary gland. <i>Science Signaling</i> , 2015, 8, ra92.	1.6	17
69	Chromosome 12p Amplification in Triple-Negative/ <i>BRCA1</i> -Mutated Breast Cancer Associates with Emergence of Docetaxel Resistance and Carboplatin Sensitivity. <i>Cancer Research</i> , 2019, 79, 4258-4270.	0.4	17
70	Landscape analysis of adjacent gene rearrangements reveals <i>BCL2L14</i> – <i>ETV6</i> gene fusions in more aggressive triple-negative breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9912-9921.	3.3	17
71	<i>Ubr3</i> , a Novel Modulator of Hh Signaling Affects the Degradation of Costal-2 and Kif7 through Poly-ubiquitination. <i>PLoS Genetics</i> , 2016, 12, e1006054.	1.5	17
72	MAPK4 promotes triple negative breast cancer growth and reduces tumor sensitivity to PI3K blockade. <i>Nature Communications</i> , 2022, 13, 245.	5.8	17

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73	Separation by Cell Size Enriches for Mammary Stem Cell Repopulation Activity. <i>Stem Cells Translational Medicine</i> , 2013, 2, 199-203.	1.6	16
74	Co-Clinical Imaging Resource Program (CIRP): Bridging the Translational Divide to Advance Precision Medicine. <i>Tomography</i> , 2020, 6, 273-287.	0.8	11
75	Internal Standard Triggered-Parallel Reaction Monitoring Mass Spectrometry Enables Multiplexed Quantification of Candidate Biomarkers in Plasma. <i>Analytical Chemistry</i> , 2022, 94, 9540-9547.	3.2	11
76	Transcriptional Reprogramming Differentiates Active from Inactive ESR1 Fusions in Endocrine Therapy-Refractory Metastatic Breast Cancer. <i>Cancer Research</i> , 2021, 81, 6259-6272.	0.4	10
77	A Mystery Wrapped in an Enigma: Matrigel Enhancement of Mammary Cell Growth and Morphogenesis. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2012, 17, 99-101.	1.0	9
78	Epithelial and non-epithelial <i>Patched-1 (Ptch1)</i> play opposing roles to regulate proliferation and morphogenesis of the mouse mammary gland. <i>Development (Cambridge)</i> , 2017, 144, 1317-1327.	1.2	9
79	Wnt-Responsive Cancer Stem Cells Are Located Close to Distorted Blood Vessels and Not in Hypoxic Regions in a p53-Null Mouse Model of Human Breast Cancer. <i>Stem Cells Translational Medicine</i> , 2014, 3, 857-866.	1.6	8
80	Orthotopic Transplantation of Breast Tumors as Preclinical Models for Breast Cancer. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	8
81	Tumor Suppressor PLK2 May Serve as a Biomarker in Triple-Negative Breast Cancer for Improved Response to PLK1 Therapeutics. <i>Cancer Research Communications</i> , 2021, 1, 178-193.	0.7	8
82	Three-dimensional vasculature reconstruction of tumour microenvironment via local clustering and classification. <i>Interface Focus</i> , 2013, 3, 20130015.	1.5	7
83	S100a4-Cre-mediated deletion of <i>Ptch1</i> causes hypogonadotropic hypogonadism: role of pituitary hematopoietic cells in endocrine regulation. <i>JCI Insight</i> , 2019, 4, .	2.3	7
84	PDXNet portal: patient-derived Xenograft model, data, workflow and tool discovery. <i>NAR Cancer</i> , 2022, 4, zcac014.	1.6	7
85	Methods in Mammary Gland Biology and Breast Cancer Research: An Update. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2009, 14, 365-365.	1.0	6
86	In Vivo Modeling of Human Breast Cancer Using Cell Line and Patient-Derived Xenografts. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2022, 27, 211-230.	1.0	5
87	Coupling Oriented Hidden Markov Random Field Model with Local Clustering for Segmenting Blood Vessels and Measuring Spatial Structures in Images of Tumor Microenvironment. , 2011, , .		4
88	Tumor-Initiating Cells and Treatment Resistance: How Goes the War?. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2009, 14, 1-2.	1.0	3
89	Embryogenesis and Oncogenesis: Dr Jekyll and Mr Hyde. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2004, 9, 105-107.	1.0	2
90	Response to the Letter by Smith et al.. <i>Stem Cells</i> , 2009, 27, 1224-1225.	1.4	1

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91	Hoxd10 Is Required Systemically for Secretory Activation in Lactation and Interacts Genetically with Hoxd9. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2020, 25, 145-162.	1.0	1
92	Milking Biological Diversity For All Itâ€™s Worthâ€”What Do Other Model Systems Teach Us About Mammary Gland Development and Function?. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2006, 11, 183-185.	1.0	0
93	The Pursuit of Truth in the Company of Friends. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2016, 21, 77-79.	1.0	0
94	Abstract 3009: A systematic review of the tumor growth metrics of patient-derived xenograft (PDX) models in the literature and in NCI PDXNet centers. , 2021, , .		0
95	Abstract 2992: Proteogenomic characterization of triple-negative breast cancer patient-derived xenografts reveals molecular correlates of differential chemotherapy response and potential therapeutic targets to overcome resistance. , 2021, , .		0
96	Hedgehog Signaling in Mammary Gland Development and Breast Cancer. , 2011, , 131-149.		0
97	Abstract IA09: Targeting tumor-initiating cells in xenograft models of human breast cancer. , 2013, , .		0
98	Surgical Procedure for Implantation of Human Tumor Tissue into the Epithelium-Free Mammary Fat Pad of Immunocompromised Mice to Generate Patient-Derived Xenografts (PDX). <i>Methods in Molecular Biology</i> , 2022, 2471, 195-207.	0.4	0
99	Abstract P5-07-01: Proteogenomic analysis of differential chemotherapy responses in patient-derived xenografts of triple-negative breast cancer. <i>Cancer Research</i> , 2022, 82, P5-07-01-P5-07-01.	0.4	0
100	Abstract PR009: Investigating dynamics of the mitochondrial network in triple negative breast cancer chemotherapy resistance. <i>Cancer Research</i> , 2022, 82, PR009-PR009.	0.4	0